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TITLE : PRODUCTION OF CARBON NANOTUBE

ABSTRACT : PROBLEM TO BE SOLVED: To attain a high yield and to enable continuous operation and mass production by decomposing a hydrocarbon at a high temperature on a catalyst comprising metal molybdenum or a metal molybdenum-containing material to deposit carbon nanotubes on the catalyst.

SOLUTION: A catalyst comprising metal molybdenum or a metal molybdenum-containing material, preferably a catalyst obtained by supporting metal molybdenum on an inorganic support is put in a reactor and a hydrocarbon is decomposed in the reactor at 800-1,200°C to deposit carbon nanotubes on the catalyst. The catalyst with the deposited carbon nanotubes is discharged from the reactor. The carbon nanotubes are continuously produced by combining the depositing and discharging steps. In other way, a hydrocarbon oil containing the catalyst is spouted into a reactor kept at 800-1,200°C and the hydrocarbon is decomposed to form carbon nanotubes.

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